

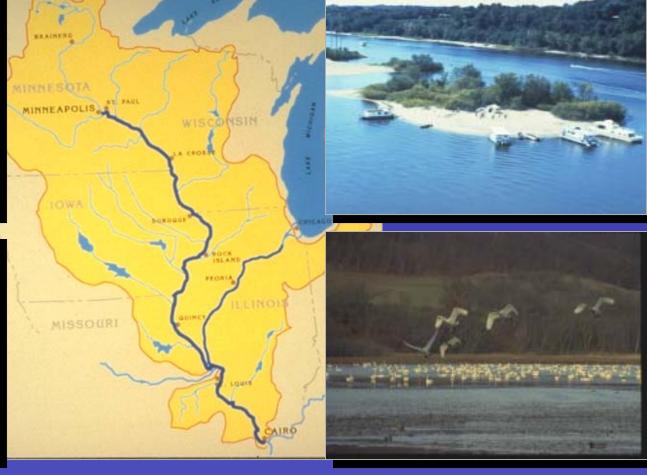
# The Upper Mississippi River System (UMRS) Environmental Management Program



# Upper Mississippi River System (UMRS)

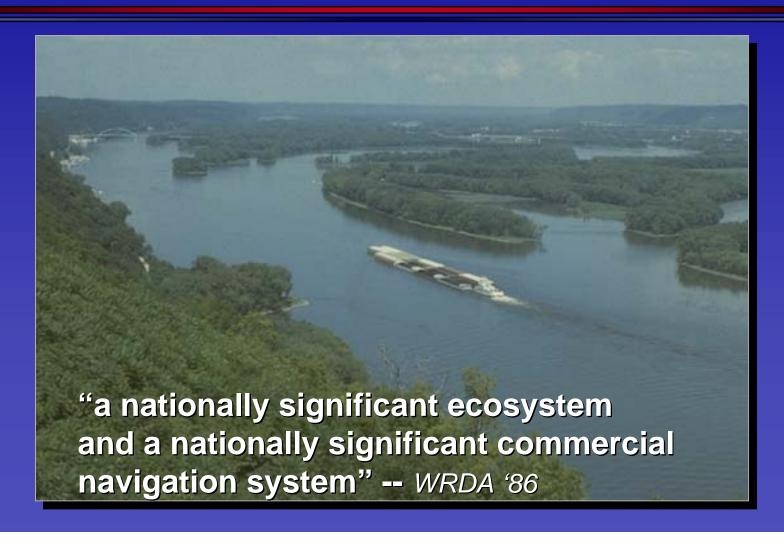








#### **WRDA '86**





US Army Corps of Engineers

St. Paul District







# The UMRS Environmental Management Program







#### **Partnership**

#### **US Fish and Wildlife Service**

**US Geological Survey** 

**State of Illinois** 

**State of Wisconsin** 

**State of Missouri** 



State of Iowa

**State of Minnesota** 

**UMR Basin Association** 

US Corps of Engineers
St. Paul - Rock Island - St. Louis

**Public** 



#### **EMP Elements**

Long Term Resource Monitoring

(LTRM)

\$10.5 Million Annually



Habitat Restoration and Protection Projects

\$23 Million Annually





#### **Habitat Needs Assessment**

- Technically sound management framework
- Tool to identify & prioritize habitat projects
- Identify habitat needs



# Habitat Restoration and Protection Projects

	Total Program	St. Paul District
Completed	33	<b>21</b>
<b>Under Constructio</b>	n 10	1
Planning/Design	17	9



# Habitat Restoration and Protection Projects





# Pool 8 Islands, WI







# Pool 8 Islands Phase I





# Pool 8 Islands Phase II





#### Polander Lake, MN

Habitat Project (EMP)

4

Placement Site Unloading (O&M)





## Finger Lakes, MN

St. Paul District





#### **Small Scale Drawdown**

- One-time event
- 50-acre pond
- Consolidation
- Seed germination
- Outlet Closure
- Pumping





### **Bank Stabilization**





### Lake Onalaska, WI





### Indian Slough





# **Environmental Management Program**

